

Work Order ID 55267

January 12, 2010 2:35:26 PM



Page 1

Item ID:	D4051-5	Accept		Setup	Start	
Revision ID:					Stop	
Item Name:	Mounting Plate					
Start Date:	1/12/10	Start Qty:	1.00		Cust Item ID:	
Required Date:	1/25/10	Req'd Qty:	1.00		Customer:	

Reference:						
Approvals:	Process Plan:		Date:	10-1-12	Tooling:	Date:
	QC:		Date:		SPC (Y/N):	Date:

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr								
D4051	PA1								

100		0.00							

Waterjet		0.00							
FLOW CNC Waterjet									

354.063									
	Memo								

	1-Cut as per Dwg D4051								
	Dwg Rev: <u>PRE</u>								
	Prog Rev: <u>Lim</u>								

	2-Deburr if necessary								

110		0.00							

QC		0.00							
Quality Control									

	QC2- Inspect parts off machine FAI/FAIB								

	Memo								

MATERIAL CERTIFICATION
REQ'D UPON DELIVERY

MF 10-1-28
HB 10-1-15

=7 Deburr m-f 10/01/15 (2X)

(2)

HB 10-1-15

PRELIMINARY ISSUE

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 55267

January 12, 2010 2:35:26 PM



Page 2

Item ID: D4051-5

Accept



Setup Start



Revision ID:

Item Name: Mounting Plate

Stop



Start Date: 1/12/10 Start Qty: 1.00



Cust Item ID:

Required Date: 1/25/10 Req'd Qty: 1.00



Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Draw
Number

Draw
Rev.

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

120



QC

Quality Control

QC8- Inspect parts - second check

0.00

Memo

0.00

27 8/10/15

(X2)

130



Packaging

Packaging

Identify as per dwg & Stock Location: Basket

0.00

Memo

0.00

PD 10.01.28 (2)

140



QC

Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

PD 10.01.28
10.01.20

MF
10-1-29

POSITIVE RECALL

EFFECTIVE _____ AUTH _____

RELEASED _____ DATE _____

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

January 12, 2010 2:35:30 PM

Work Order ID: 55267



Parent Item: D4051-5



Parent Item Name: Mounting Plate

Start Date: 1/12/10

Required Date: 1/25/10

Comments: IPP RevA: new issue DD 10.01.12 verified by:EC

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
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M304SI6GA

Purchased

No

100

sf

323.2779

0.0073



B 10-1-15

304/316 Sheet .063

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

MAT

323.2778737

106860

8.0295

111924

25.1689737

112442

29.8899

113295

260.1895

112290

112290

②

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

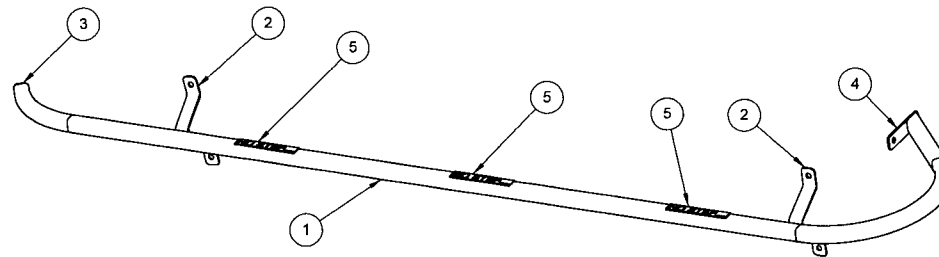
Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

ITEM	QTY -041	QTY -042	P/N	DESCRIPTION
	X		D4051-041	BAR DEFLECTOR ASSY
		X	D4051-042	BAR DEFLECTOR ASSY
1	1	1	D4051-1	BAR DEFLECTOR
2	2	2	D4051-3	BRACKET
3	1	1	D4051-7	FILLER
4	1	1	D4051-5	MOUNTING PLATE
5	3	3	D4051-9	WARNING LABEL



D4051-041 BAR DEFLECTOR ASSY (SHOWN)
D4051-042 BAR DEFLECTOR ASSY (OPPOSITE)

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 53267
BP 10-1-13

PRELIMINARY ISSUE

RF 09.12.22

PA2	NEW ISSUE		RF	09.12.22
REV.	DESCRIPTION		BY	DATE
DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
DRAWN	RF			
CHECKED			DRAWING NO.	REV. PA2
MFG. APPR.			D4051	SHEET 1 OF 7
APPROVED			TITLE	SCALE
DE APPR.		BAR DEFLECTOR ASSY	NTS	
DATE	09.12.22	COPYRIGHT © 2009 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.		

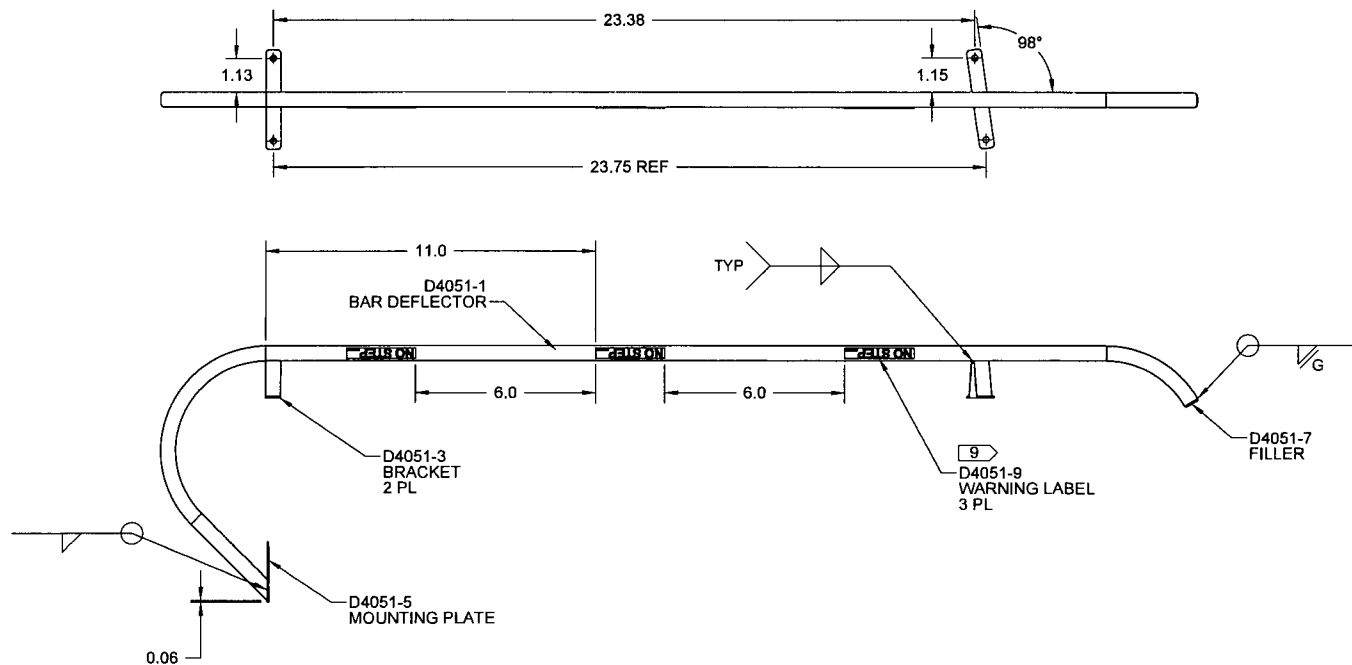
W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



D4051-041 BAR DEFLECTOR ASSY

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: POWDER COAT WHITE (4.3.5.2) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4051-041" USING FINE POINT PERMANENT INK MARKER
- 7) WEIGHT: 1.07 lbs
- 8) WELD PER DART QSI 004
- 9) APPLY D4051-9 SIGN AFTER POWDER COAT

PRELIMINARY ISSUE

09.12.22

DESIGN	RF	DART AEROSPACE USA, INC.	
DRAWN	RF	PORT HADLOCK, WA	
CHECKED		DRAWING NO.	REV. PA2
MFG. APPR.		D4051	SHEET 2 OF 7
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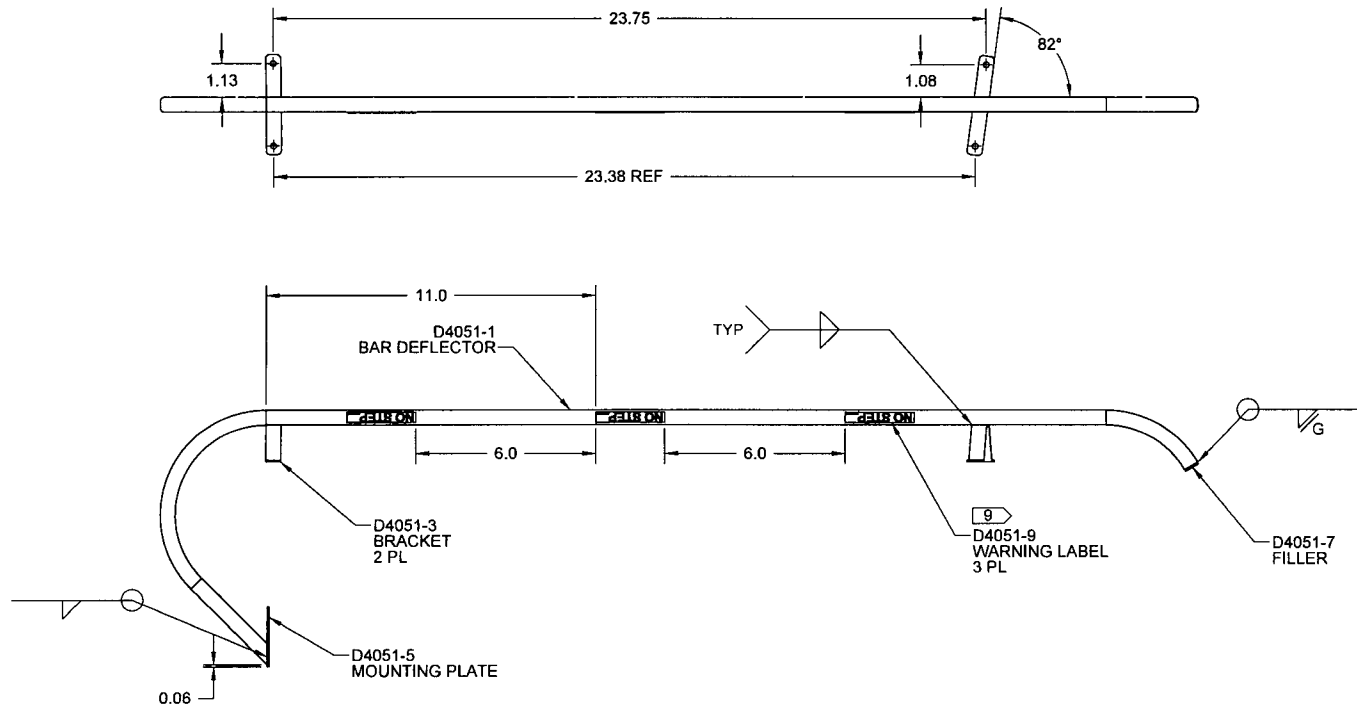
W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



D4051-042 BAR DEFLECTOR ASSY

W1055247
PRELIMINARY ISSUE
 09.12.22

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: POWDER COAT WHITE (4.3.5.2) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4051-042" USING FINE POINT PERMANENT INK MARKER
- 7) WEIGHT: 1.07 lbs
- 8) WELD PER DART QSI 004
- 9) APPLY D4051-9 SIGN AFTER POWDER COAT

DESIGN	RF	DART AEROSPACE USA, INC.	
DRAWN	RF	PORT HADLOCK, WA	
CHECKED		DRAWING NO.	REV. PA2
MFG. APPR.		D4051	SHEET 3 OF 7
APPROVED		TITLE	SCALE
DE APPR.		BAR DEFLECTOR ASSY	NTS
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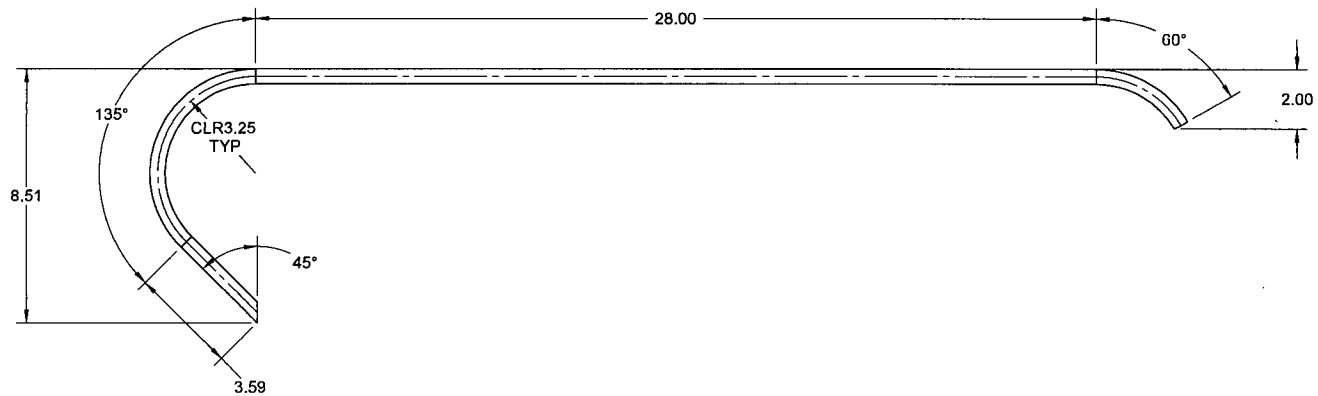
W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



8 D4051-1 BAR DEFLECTOR

NOTES:

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SQUARE TUBE, 0.50 x 0.50 x 0.049 WALL
REF DART SPEC. M304TS0.500VV.049
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.98 lbs
- 8) TUBE FLAT LENGTH 43.00 REF

w/0 55247
PRELIMINARY ISSUE

09.12.22

DESIGN	RF	DART AEROSPACE USA, INC.	
DRAWN	RF	PORT HADLOCK, WA	
CHECKED		DRAWING NO.	REV. PA2
MFG. APPR.		D4051	SHEET 4 OF 7
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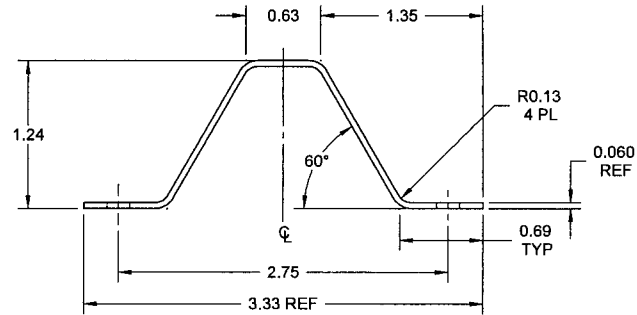
W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

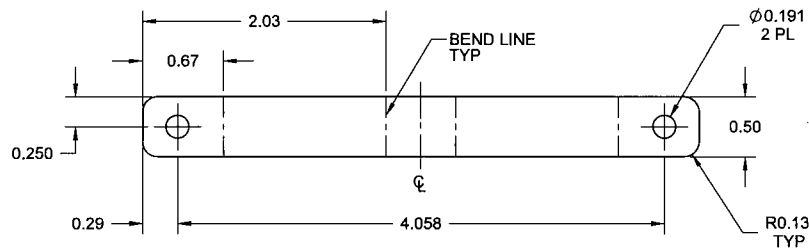
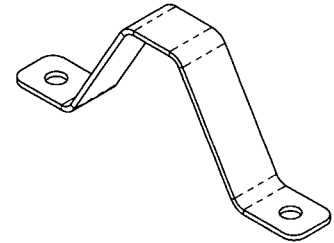
Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



D4051-3 BRACKET
(MAKE FROM D4051-3F FLAT PATTERN)



D4051-3F FLAT PATTERN

NOTES:

- 1) MATERIAL: 304/316 STAINLESS STEEL SHEET 0.060 THICK ANNEALED 2B FINISH
PER MIL-S-5059 OR AMS 5513/5524 OR ASTM A240 OR ASME 5A240
PER DART SPEC M304S16GA
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: 0.03 lbs

w/0 55267
PRELIMINARY ISSUE
09.12.22

DESIGN	RF	DART AEROSPACE USA, INC.	
DRAWN	RF	PORT HADLOCK, WA	
CHECKED		DRAWING NO.	REV. PA2
MFG. APPR.		D4051	SHEET 5 OF 7
APPROVED		TITLE	SCALE
DE APPR.		BAR DEFLECTOR ASSY	NTS
DATE	09.12.22	<small>COPYRIGHT © 2009 BY DART AEROSPACE USA, INC. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL, AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.</small>	

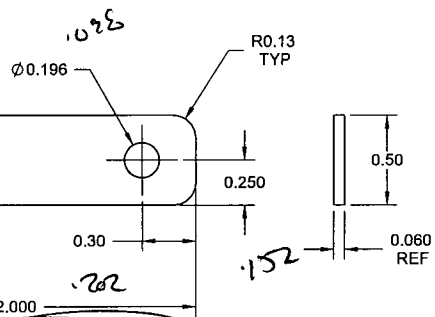
W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

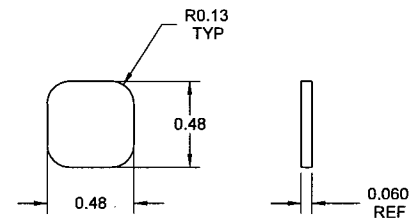
Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



D4051-5 MOUNTING PLATE



D4051-7 FILLER

NOTES:

- 1) MATERIAL: 304/316 STAINLESS STEEL SHEET 0.060 THICK ANNEALED 2B FINISH
PER MIL-S-5059 OR AMS 5513/5524 OR ASTM A240 OR ASME 5A240
PER DART SPEC M304S16GA
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: D4051-5: 0.02 lbs
D4051-7: 0.004 lbs

PRELIMINARY ISSUE

09.12.22

DESIGN	RF	DART AEROSPACE USA, INC.	
DRAWN	RF	PORT HADLOCK, WA	
CHECKED		DRAWING NO.	REV. PA2
MFG. APPR.		D4051	SHEET 6 OF 7
APPROVED		TITLE	SCALE
DE APPR.		BAR DEFLECTOR ASSY	NTS
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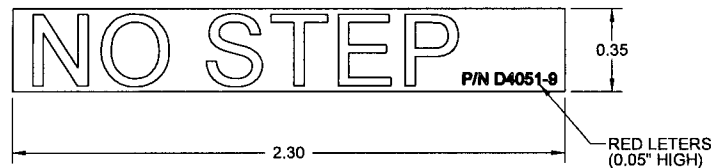
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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



D4051-9 WARNING LABEL

NOTES:

- 1) MATERIAL: RED LETTER (0.30" HIGH) ON WHITE BACKGROUND AND ADHESIVE BACK.
MANUFACTURE FROM 3M 7 MIL MASKING FILM #8522CP OR AVERY IPM #2031
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: N/A

w/o 55247
PRELIMINARY ISSUE

~~7#~~ 09.12.22

DESIGN	RF	DART AEROSPACE USA, INC.	
DRAWN	RF	PORT HADLOCK, WA	
CHECKED		DRAWING NO.	REV. PA2
MFG. APPR.		D4051	SHEET 7 OF 7
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W/O:		WORK ORDER CHANGES					
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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Receiving Report

Date: 9/12/04
 Supplier: MAWA

Batch No: 1112290
 Dart P/O: 10123

Packing Slip: Yes ☒ No ☐
 Invoice: Yes ☐ No ☒
 Receipt: Cash ☐ Cr ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐
 Waybill Attached: Yes ☐ No ☒
 Shipment Complete: Yes ☒ No ☒ N/A ☐
 QC6 Inspection ☒ N/A ☐
 Work Order 67122 N/A ☒

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments
<u>B. J. V. 12 P.O.</u>						

Initials of receiver (If shipment OK) Level 12 [Signature]

Production/Admin: 09.07.28
 Date
 Received/Costing 09.07.28
 Initial tt

Location _____



Magna Stainless
5775 Kieran St, Saint-Laurent QC H4S 0A3
Phone: (514) 339-1211 Watts: 1-800-363-6646 Fax: (514) 339-1105

INVOICE

Pg 1 of 1 I014644

SOLD TO:

DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY , ON
K6A 1K7

RECEIVED

JUL 30 2009

SHIP TO:

DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY , ON
K6A 1K7

MTR: Y

INVOICE DATE: 07/24/09

ORDER DATE: 07/23/09

SHIP DATE: 07/24/09

ORDER NUMBER: W016202

PURCHASE ORDER: PO10123

Currency		Sales Person		Ship Via		F.O.B.	
CANADIAN DOLLARS		ERYCK BLAIS		NIR:R-557065-1		PREPAID	
Ln	Back Ordered	Ordered	Unit	Description	Shipped	Price Per	Value
		4	PC	STAINLESS ROUNDS SRB 303 1/2" x R/L L029385 12'5" 4 PC/32 LB	4 UN	17.00	68.00
		1	PC	STAINLESS SHEET SSH 304 2B 12ga x 48" x 96" L025436 1 PC/147 LB	1 UN	260.00	260.00
		6	PC	SSH 304 2B 16ga x 48" x 96" L028840 6 PC/504 LB	6 UN	158.00	948.00

07/27/09 14:14:08

Merchandise:	1,276.00
Surcharges:	
No Tax Costs:	
GST	63.80
Total Due:	1,339.80

Title to the goods sent out on this invoice remains with Magna Stainless Div of CSM ULC until such time as this invoice has been paid in full. Unless otherwise noted terms are 30 days. Interest accrues on all overdue accounts at the rate of 1.5% per month compounded monthly.

Q.S.T. # 1213236471
G.S.T. # 881565899 RT0001



Magna Stainless

5775 Kieran St, Saint-Laurent, Quebec H4S 0A3
Phone: (514) 339-1211 Watts: 1-800-363-6646 Fax: (514) 339-1105

PACKING LIST

I014644

Page: 1 of 1

SOLD TO:
DART AEROSPACE LTD
1270 ABERDEEN STREET

HAWKESBURY , ON
K6A 1K7
Contact: LINDA

SHIP TO:
DART AEROSPACE LTD
1270 ABERDEEN STREET

HAWKESBURY , ON
K6A 1K7
Ship Terms: PREPAID



MTR:Y

SPECIAL INSTRUCTIONS

STOCK

Currency		Sales Person		Customer Phone	Customer Fax	Customer PO	
CANADIAN DOLLARS		ERYCK BLAIS		(613) 632-5200	(613) 632-1053	PO10123	
Sales Order	Terms		Ship Via		Date Ordered	Date Required	Date Shipped
W016202	NET 30 DAYS		NIR:R-557065-1		07/23/09	07/24/09	07/24/09

Ordered	Back Ordered	Unit	Description	Bundle #	Heat #	Shipped
4		PC	STAINLESS ROUNDS SRB 303 1/2" x R/L ✓ 12'5" 32 LB / 4 PC	L029385	17578	4
1		PC	STAINLESS SHEET SSH 304 2B 12ga x 48" x 96"			
6		PC	SSH 304 2B 16ga x 48" x 96" ✓ 147 LB / 1 PC ✓ 504 LB / 6 PC	L025436 L028840	SE39058 A1703362	1 6
Pallets: 1			Skids: 1			
			Total Weight:			683 LB

Shipped by:

Date:

Signature:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO10123

Purchase Order Date 7/23/2009

PO Print Date 7/23/2009

Page Number 1 of 3

Order From :

VC-MAG002

MAGNA STAINLESS
5775 RUE KIERAN
ST LAURENT, QC H4S 0A3
CA

Contact Name

Vendor Phone 800 363 6646

Vendor Fax 514 339 1105

Vendor Account Nbr

Buyer

Linda Lacelle

Requisition Nbr

Tax Resale Nbr 10127-2607

Terms

Net 30

Currency

CAD

FOB

Ship To :

DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	M174B0.250X4.000	17-4 SS Bar .250 X 4.00	7/27/2009 Yes	10.00 f	Yours ppd	\$22.5000	\$225.00
		Special Inst:	17-4 PH SS BAR PER AMS 5604/5643 GRAIN MUST BE ALONG LENGTH OF BAR YTS = 100KSI UTS = 150KSI				
2	M174B0.375X1.000	17-4 SS Bar .375 x 1.00	7/27/2009 Yes	10.00 f	Yours ppd	\$11.5000	\$115.00
		Special Inst:	AS ABOVE				
3	M2024T3S.080	2024-T3 .080 sheet	7/27/2009 Yes	128.00 sf	Yours ppd	\$10.7800	\$1,379.84
		Special Inst:	4 SHEETS OF 4' X 8' 2024-T3 ALUM SHEET PER AMS-QQ-A-250/4 OR AMS4037				

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required when applicable

Change Nbr: 1

Change Date: 7/23/2009

POSCO INSPECTION CERTIFICATE

MO18992

Certificate No./증명서번호 : 081031-PRSE-008-001
Date of Issue/발행일자 : NOV.22.2008
Surface Finish/표면마무리: NO.2B

SUPPLIER : DAEWOO INTERNATIONAL CORPORATION

CUSTOMER : MAGNA STAINLESS INC(DIV OF CANADIAN SPECIALTY METALS INC.)

Commodity/품명: COLD ROLLED STAINLESS STEEL SHEET IN COIL

Spec & Type/규격: ASTM-A240-304

Spec & Type/규격: ASTM-A240-304																						
Size/치수 (MM)	Product No. 제품번호	COIL 수량	Weight 중량 (kg)	Heat No. 제강번호	P O S I T I O N	Tensile/인장시험				Hard- ness /경도 HRB	D I V I S I O N	Chemical Composition/화학성분(%)										
						YS 0.2%	TS	EL	C			Si	Mn	P	S	Cr	Ni	Cu	Mo	N		
3.00x1219xC	QFK0380B	1	4,917	SC19280	T	290	634	54	85.9		L	576	440	1050	260	57	1806	802	330	11	331	
3.00x1219xC	QFK0380C	1	4,942	SC19280	T	290	631	54	85.9		L	576	440	1050	260	57	1806	802	330	11	331	
*** Sub Total (010) ***		2																				
3.00x1524xC	QBK0368C	1	6,765	SC19373	T	300	548	54	85.8		L	572	400	1040	259	80	1822	804	280	15	409	
3.00x1524xC	QBK0368D	1	6,830	SC19373	T	300	548	54	85.8		L	572	400	1040	259	80	1822	804	280	15	409	
*** Sub Total (020) ***		2																				
2.50x1219xC	QFK0377B	1	5,570	SE35058	T	305	654	53	87.2		L	588	406	1066	288	36	1818	803	387	11	385	
*** Sub Total (030) ***		1																				
*** Grade Total ***		5																				
*** Grand Total ***		5																				
Handwritten: 1 PER H304S @ 29.1 B																						
Handwritten: 04.07.20																						
Last Item																						

* Position - T : Top, M : Middle, B : Bottom

1 PER H304S
@22.1.3
04.07.28

* Position - T : Top, M : Middle, B : Bottom
* Tensile Test. Direction : Transversal, Gauge Length : 50mm(Rectangular),
YP Method : 0.2% off-set
* Division - L:Ladle Analysis
* Chemical Composition Unit: -2.x1/100, -3.x1/1000, -4.x1/10000, -5.x1/100000
* Tr : it is within the standard range(<0.008%) and include trace element:

We hereby certify that the material herein has been made in accordance with the order and specification.

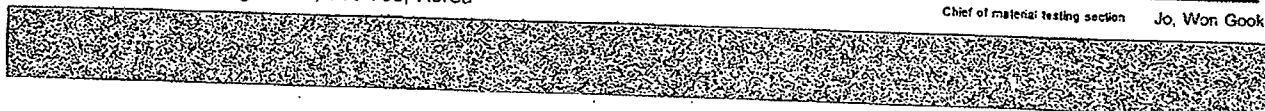
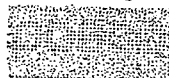
THIS CREDIT NUMBER: I700331

Test Certificate is issued according to EN10204 3.1B.
* This Mill Test Certificate cannot be copied for any purpose.

Surveyor To:

POSCO Pohang Works, 5 Dongchon-dong, Nam-gu, Pohang-si, Gyeongsangbuk-do, 790-785, Korea

Chief of material testing section Jo, Won Gook



From:

06/03/2009 08:57 #379 P.007

Mill Test Report

Page 1 of 2

MILL TEST REPORT

TA CHEN INTERNATIONAL CORPORATION

www.tachen.com

This MTR contains 1 page (Page: 1)

MTR#: TICL1493 Customer#: MAGDOR PO#: P005195 SO#: PE2440
 Item#: 16GA483042B Bundle#: KA71165700F30 Heat#: A1703362



INSPECTION CERTIFICATE

Shanxi Taigang Stainless Steel CO., LTD Member
 of Taiyuan Iron and Steel (Group) Co., LTD

NO.2 Jiancaoping, Taiyuan, Shanxi, P.R.China
 TEL: (0351)3013328 FAX: (0351)3017816
 http://www.tisco.com.cn
 E-mail: tgbxg@tisco.com.cn

MILL TEST CERTIFICATE

CERTIFICATE NO. T08-10BC
 MATERIAL AISI304 NO. 2B FINISH
 SPECIFICATION ASTM A240-04/A480-04, ASME SA240/A480
 ASTM A886, AMS 8513/5511
 L/C No.

CUSTOMER

Ta Chen International, Inc.

CONTRACT NO.

L22095

DATE OF ISSUE

20080126

Product

COIL

Melting Furnace

E+VOD

Inspector's stamp



Mark of the Manufacturer

Shanxi Taiyuan Stainless Steel Co., Ltd

NO.	Heat No.	Coil No.	Batch No.	Quantity	Dimensions (inch)	Weight(Pound)
1	B3706712	KA80160320J10	78243728	1	18GA x 48" x C	11327
2	B3706712	KA80160320J20	78243729	1	18GA x 48" x C	11228
3	A1703362	KA71163700F30	77231876	1	16GA x 48" x C	14054
4	A2703539	KA71281590A20	77237292	1	16GA x 48" x C	11330
5	A2703539	KA71281590A30	77237293	1	16GA x 48" x C	11493
6	A1703605	KA71285240A30	77239898	1	16GA x 48" x C	14537
7	A1703667	KA80160680F20	78243557	1	16GA x 48" x C	15318

Chemical Composition

Heat No.	C	Si	Mn	P	S	Cr	Ni	Cu	Al	N	Mo	Ti
B3706712	0.030	0.480	1.170	0.016	0.001	18.170	8.110	0.010		0.080	0.010	
B3706712	0.050	0.480	1.170	0.016	0.001	18.170	8.110	0.010		0.080	0.010	
A1703362	0.046	0.474	1.292	0.025	0.002	18.206	8.023	0.077		0.065	0.047	
A2703539	0.041	0.591	1.216	0.030	0.002	18.141	8.211	0.140		0.058	0.063	
A2703539	0.041	0.591	1.216	0.030	0.002	18.141	8.211	0.140		0.058	0.063	
A1703605	0.040	0.532	1.179	0.028	0.002	18.283	8.063	0.172		0.087	0.080	
A1703667	0.047	0.548	1.228	0.032	0.002	18.042	8.007	0.230		0.073	0.089	

Mechanical Properties (Test temperature : 20°C)

Test No.	Tensile Rm N/mm ²	R _{p0.2} Yield _{0.2} N/mm ²	R _{p1.0} Yield _{1.0} N/mm ²	Elongation		Corrosion Tests	Hardness		
				A5 (%)	A50(%)		HRB	HV	HRC
78243728-T	665	295			59		87.5		
78243729-T	665	295			59		87.5		
77231876-T	680	287			47		88.5		
77237292-T	630	284			56		84.0		
77237293-T	650	284			56		84.0		
77239898-T	645	307			55		86.5		
78243557-T	630	292			55		85.5		

SPECTROMETER SORTING TEST: OK
 EN 10204-3.1B

Place: Taiyuan

Work Inspector: 李忠新

Page: 1 of 6

No 24480

P005195

A1703362

A Per 13045 Rev.3
 04.07.28

VIRAJ PROFILES LIMITED

10 IMPERIAL CHAMBERS, 1ST FLOOR,
WILSON ROAD, BALLARD ESTATE,
MUMBAI 400 038 INDIA

TEST CERTIFICATE**CUSTOMER :**

ORDER NO .
P00912

PACKING
LIST NO.
IMP/102060

INSPECTION NO
IMP/102060/15

DATE
17/05/2009

BUNDLE NO .
2049946,2049948

GRADE
T-303

DESCRIPTION :
STAINLESS STEEL BRIGHT BARS

SMOOTH TURNED

6407.28

SIZE (INC)	SHAPE	TOLERANCE	LENGTH (FT)	PIECES	WEIGHT (LBS)
1/2	ROUND	ASTM A484	12' - 14'	256	2132

CHEMICAL ANALYSIS

HEAT NO. 17578

C	Mn	Si	S	P	Ni	Cr	Mo	Cu	N	Co
0.053	1.92	0.41	0.302	0.038	8.07	17.28	0.29	0.48	0.042	0.11

TEST RESULT

.2% YIELD STRENGTH KSI	TENSILE STRENGTH KSI	ELONGATION %	REDUCTION OF AREA %	HARDNESS BHN	GRAIN SIZE
98	111	41	62	220	7

Specification :

MATERIAL CONFIRMS TO ASTM A 582/A582M-05 COND A, AMS 5640R TYPE I, EXCEPT MARKING, QQS-764BA2 COND A EXCEPT MARKING, UNS-S-30300.

Remarks :

MATERIAL IS FREE FROM MERCURY CONTAMINATION, FREE FROM WELD OR WELD REPAIRS, MELT SOURCE: AOD, MACRO: GOOD, MICRO: GOOD, MINIMUM SOLUTION ANNEALING TEMPERATURE 1050C, SOAKING TIME 00 HRS, WATER QUENCHED. COUNTRY OF ORIGIN: INDIA WE CONFIRM THAT MATERIAL HAS BEEN TESTED AND FOUND TO BE FROM RADIOACTIVE CONTAMINATION.

We hereby certified that the material described above has been tested and complies with the terms of order/contract.


WORKS INSPECTOR
S. SUVARNA

P005930-17578